

INTERNATIONAL SEARCH REPORT

Internat Application No
PCT/IB 03/04647

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H05K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 957 665 A (ALPS ELECTRIC CO LTD) 17 November 1999 (1999-11-17) paragraph [0018] - paragraph [0038]	1,2
A	---	3
A	US 5 731 964 A (KITAKUBO KAZUTO ET AL) 24 March 1998 (1998-03-24) column 2, line 16 - line 48	1-3
A	---	1-3
A	US 5 508 889 A (II HIDEHIRO) 16 April 1996 (1996-04-16) column 1, line 40 - column 2, line 14	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- "O" document referring to an oral disclosure, use, exhibition or other means
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

16 February 2004

Date of mailing of the international search report

08 MAR 2004

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INTERNATIONAL SEARCH REPORT

nation on patent family members

Internat Application No
PCT/TB 03/04647

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			DE 69913425 D1	22-01-2004
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			TW 517506 B	11-01-2003
			US 6399893 B1	04-06-2002

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			CN 1145573 A , B	19-03-1997

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